***Asymmetric discounting of gains and losses: A query***

***theory account* Study 2Variable Dictionary**

Corresponds to Asym\_Disc\_Study2\_CLEANPIIremoved (Original title: Study 2 - clean v2 no names)

**exclude**

* 0: Good - meets non-monotonic and non-perverse conditions, excludes extreme survey times, and those who failed the attention screening (reader)
* 0.25: Middling
* 0.5: Middling
* 1: Bad

\*Any rows with values other than 0 for this field were excluded from analysis

**Bad aspects**

* Empty
* 1 if included bad aspects

**Serial** = Unique participant identifier

**cons\_end** = Datetime completed consent agreement

**cons\_start** = Datetime started consent agreement

**cons\_IP** = *(hidden)* IP address of participant during consent agreement

**repeat\_IP** = 1 if IP is repeated, else blank

**IP\_location** = *(hidden) location* of participation during consent agreement

**repeat\_name** = 1 if name is repeated, else blank

**repeat\_email** = 1 if email is repeated, else blank

**rdr\_end** = Datetime completed reader (attention screening) questions

**rdr\_end** = Datetime started reader (attention screening) questions

**rdr\_IP** = *(hidden)* IP address of participant during reader

**reader1** = answer to reader question 1, should be ‘reader’ if read directions

**reader2** = answer to reader question 2, should be ‘reader’ if read directions

**reader3** = answer to reader question 3, should be ‘reader’ if read directions

**READER\_PASS** = 1 if answer to all three questions was ‘reader’, 0 otherwise

**UNNATURAL\_ORDER** = 1 if given the unnatural condition (asked to consider thoughts in favor of the alternative before asked to consider thoughts in favor of the default), else -1. The natural condition is later for accelerated gains and losses, and now for delayed gains and losses.

**order** = either natural or unnatural depending on order asked to consider thoughts in

**NOW\_FIRST** = 1 if asked to consider now alternative first

**first\_type** = ‘now’ if NOW\_FIRST = 1, else ‘later’

**NOW\_SECOND** = 1 if asked to consider now alternative second

**second\_type** = ‘later’ if NOW\_SECOND = 1, else ‘now’

**experiment\_id\_1\_abt** = the condition for experiment 1 (same condition given for experiment 2) encoded as follows:

* 175 = Natural Gain Delayed
* 185 = Unnatural Gain Delayed
* 187 = Natural Gain Accelerated
* 189 = Unnatural Gain Accelerated
* 191 = Natural Loss Delayed
* 193 = Unnatural Loss Delayed
* 195 = Natural Loss Accelerated
* 197 = Unnatural Loss Accelerated

**num\_aspects\_listed\_1\_abt** = total number of thoughts listed by participant for experiment 1

**num\_good\_now\_1** = number of thoughts listed in experiment 1 that are about why it would be good to receive/pay now

**num\_bad\_now\_1** = number of thoughts listed in experiment 1 that are about why it would be bad to receive pay/now

**num\_good\_later\_1** = number of thoughts listed in experiment 1 that are about why it would be good to receive/pay later

**num\_bad\_later\_1** = number of thoughts listed in experiment 1 that are about why it would be bad to receive/pay later

**num\_none\_1** = number of thoughts listed in experiment 1 that are about neither of the above

**experiment\_id\_1\_fav** = same condition encoding as experient\_id\_1\_abt

**num\_aspects\_listed\_1\_fav** = the number of thoughts listed by each participant experiment one, which are the same values as num\_aspects\_listed\_1\_abt.

**num\_fav\_now\_1** = number of thoughts in experiment 1 that favor receiving [paying] now

**num\_fav\_later\_1** = number of thoughts in experiment 1 that favor receiving [paying] now

**num\_fav\_neither\_1** = number of thoughts in experiment 1 that do not favor either of paying now or paying later

**experiment\_id\_2\_abt =** the condition for experiment 2 (same condition given for experiment 1) encoded as follows:

* 176 = Natural Gain Delayed
* 186 = Unnatural Gain Delayed
* 188 = Natural Gain Accelerated
* 190 = Unnatural Gain Accelerated
* 192 = Natural Loss Delayed
* 194 = Unnatural Loss Delayed
* 196 = Natural Loss Accelerated
* 198 = Unnatural Loss Accelerated

**num\_aspects\_listed\_2\_abt** = total number of thoughts listed by participant for experiment 2

**num\_good\_now\_2** = number of thoughts listed in experiment 2 that are about why it would be good to receive/pay now

**num\_bad\_now\_2** = number of thoughts listed in experiment 2 that are about why it would be bad to receive pay/now

**num\_good\_later\_2** = number of thoughts listed in experiment 2 that are about why it would be good to receive/pay later

**num\_bad\_later\_2** = number of thoughts listed in experiment 2 that are about why it would be bad to receive/pay later

**num\_none\_2** = number of thoughts listed in experiment 2 that are about neither of the above

**experiment\_id\_2\_fav** = same condition encoding as experient\_id\_2\_abt

**num\_aspects\_listed\_2\_fav** = the number of thoughts listed by each participant experiment one, which are the same values as num\_aspects\_listed\_2\_abt.

**num\_fav\_now\_2** = number of thoughts in experiment 2 that favor receiving [paying] now

**num\_fav\_later\_2** = number of thoughts in experiment 2 that favor receiving [paying] now

**num\_fav\_neither\_2** = number of thoughts in experiment 2 that do not favor either of paying now or paying later

**titr\_condition** = loss/gain and delay/accelerate condition given for choice titration

* ld = loss delayed
* ga = gain accelerated
* la = loss accelerated
* gd = gain delayed

**sign** = loss or gain: sign condition given for choice titration

**GAIN** = 1 if given gain condition, else -1

**direction** = delay or accel: direction condition given for choice titration

**DELAY** = 1 if given delay condition, else -1

**switch\_type** = The summary response of the participant depending on their scenario starting from either a fixed or variable option

* all\_fixed = participant did not switch from fixed options (fixed to fixed and remained with the original fixed option)
* all\_var = participant did not switch from variable options (variable to variable and never settled on a fixed option)
* to\_var = participant switched from either fixed or variable option to another variable option

**expected\_switch\_type** = In all the presented scenarios, the expected switch type is to variable (to\_var) to find the indifference point

**perverse** = responses swapped from varying amount to the fixed amount or vice versa in an irrational direction (choosing to pay more or to receive less)

0 = non perverse

1 = perverse

**switches** = number of times the participant switched from the fixed amount or the varying amount to find indifference point

**mono** = whether or response was monotonic

0 = non monotonic responses switched back and forth between now and later amounts more than one time

1 = monotonic responses did not switch back and forth between now and later amounts more than one time

**sig\_var** = the dollar amount at which the participant switched to the alternative option (only those with a switch\_type of to\_var). Ranges from 40-90 in $5 increments for the delayed condition and ranges from 35-85 in $5 increments for the accelerated condition.

**titr\_dateadded** = datetime completed the titration

**titr\_IP** *= (hidden)* IP address of participant during titration

**demo\_end** = datetime ended the demographics portion of the survey

**demo\_start =** datetime started the demographics portion of the survey

**demo\_IP** = *(hidden)* IP address of participant during started the demographics portion of the survey

**Gender** = either Female or Male

**FEMALE** = 1 if female, 0 if male

**Whatyearwereyouborn** = Birth year of participant

**AGE** = age of participant

**Marital Status** = One of Single, Living together, Married, Widowed, and Divorced or living separated

**COLIVING** = 1 if status is living together or married

**KIDS** = Number of children the participant has

**Howwouldyoudescribeyourcurrenthealth** = One of excellent, very good, good, fair, or poor

**SUBJ\_HEALTH** = 5 for excellent, 4 for very good, 3 for good, 2 for fair, 1 for poor

**Whatisyourhighestlevelofeducation** = Highest level of education that the participant has completedfrom the following list: No degree; High school diploma; Associate degree, academic; Associate degree, occupational; Bachelor’s degree; Professional degree; Master’s degree; Doctoral degree;

**EDUC** = 21 for doctoral degree, 19 for professional degree, 18 for Master’s degree, 16 for Bachelor’s, 14 for Associate degree (occupational) and Associate degree(academic), 12 for high school, 10 for no degree

**Householdincome** = One of the following: less than $10,000, $10,000 - $19,999, $20,000 - $34,999, $35,000 - $49,999, $50,000- $99,999, $100,000 - $199,999, greater than $200,000, blank

**INCOME** = dollar estimate of income

**CurrentOccupation** = One of the following: Executive/management, Teacher, Legal, Artist/musician/writer, student, finance, sales and marketing, administrative/secretarial, homemaker, self-employed, labor/construction, medical/dental, retired, food services, government, military, other

**OtherCurrentOccupation** = Other employment type that was entered by the participant

**PreRetireOccup** = Occupation before retirement for those who listed retired for CurrentOcccupation

**OtherPreRetireOccup** = additional pre-retirement occupation

**Doyousmoke** = Yes for smokers, No for nonsmokers

**SMOKER** = 1 if smoker, 0 for nonsmokers

**BlackorAfricanAmerican** = Yes if Black or African American, else No

**AmericanIndianorAlaskanNative** = Yes if AmericanIndianorAlaskanNative, else No

**White** = Yes if White, else No

**Hispanic** = Yes if Hispanic, else No

**Asian** = Yes if Asian, else No

**HawaiianorPacificIslander** = Yes if Hawaiian or Pacific Islander, else No

**Other** = Yes if member of another race, else No

**Affil** = One of the following: Democrat, Republican, Independent, Other

**OtherPoliticalAffil** = Other political affiliation that was entered by the participant

**Dur\_path** = path taken through survey, matches with conditions

* 1 = Natural Gain Delayed
* 2 = Unnatural Gain Delayed
* 3 = Natural Gain Accelerated
* 4 = Unnatural Gain Accelerated
* 5 = Natural Loss Delayed
* 6 = Unnatural Loss Delayed
* 7 = Natural Loss Accelerated
* 8 = Unnatural Loss Accelerated

**end\_time** = time survey completed

**begin\_time** = time survey started

**duration\_mins** = duration in minutes of survey completion

**ln\_min** = natural log of the duration in minutes

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